

Title (en)

Fresnel lens, prism array, rear projection display apparatus, and illuminating apparatus

Title (de)

Fresnellinse, Prismenanordnung, Rückprojektionsanzeigevorrichtung und Beleuchtungsvorrichtung

Title (fr)

Lentille de Fresnel, jeu de prismes, appareil d'affichage de projection arrière et appareil d'éclairage

Publication

**EP 1845393 A2 20071017 (EN)**

Application

**EP 07106072 A 20070412**

Priority

JP 2006111051 A 20060413

Abstract (en)

A Fresnel lens (5) is provided. The Fresnel lens (5) includes a plurality of prisms (7) arrayed on an incident surface side thereof, the prisms refracting light incident on a refractive surface (7a), and reflecting the light refracted thereon on the reflective surface (7b) to be directed to an exit surface side (7c), in which at least a part of the Fresnel lens (5) includes a space-adjusting surface (7d) provided to separate base portions of the refractive surface (7a) and the reflective surface (7b) between adjacent prisms.

IPC 8 full level

**G02B 3/08** (2006.01); **G02B 5/04** (2006.01); **G03B 21/10** (2006.01); **G03B 21/62** (2014.01)

CPC (source: EP KR US)

**G02B 3/08** (2013.01 - EP KR US); **G02B 5/045** (2013.01 - EP US); **G02B 3/0037** (2013.01 - EP US)

Cited by

CN111290128A; CN107293217A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK YU

DOCDB simple family (publication)

**EP 1845393 A2 20071017**; CN 101055322 A 20071017; JP 2007286183 A 20071101; KR 20070101791 A 20071017; TW 200745614 A 20071216; US 2007285773 A1 20071213

DOCDB simple family (application)

**EP 07106072 A 20070412**; CN 200710096132 A 20070413; JP 2006111051 A 20060413; KR 20070035790 A 20070412; TW 96112866 A 20070412; US 69784807 A 20070409